

Page 1 of 1

All amounts are calculated in domestic currency.

Book Amt	
\$377.74	
\$260.77	
\$87.85	
\$254.30	
\$64.73	
\$0.00	
233.0000	
0.0000	
0.0000	
\$1,045.39	
0.0000	

BILL OF LADING

No: PEC 56267
Ship Date 25 Jul 17 at 12:07 From PFW

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

BILL OF LADING

1) Our Order PEC- 74611- 1 Your PO # 37171
STAINLESS STEEL SHEET 304L-2B DUAL GRADE
.0600 Nom X 48.0000" X 96.0000"

Heat Number YU175175 DAS 5 Tag No 673823

Quantity 96.00 SFT PCS 3 Wt LBS 230

2) Our Order PEC- 74611- 2 Your PO # 37171
STAINLESS STEEL SHEET 304-2B
.0360 Nom X 48.0000" X 96.0000"

Heat Number AOA010-AAD DAS 5 Tag No 673824

Quantity 96.00 SFT PCS 3 Wt LBS 137

3) Our Order PEC- 74611- 3 Your PO # 37171
ALUMINUM FLAT BAR 6061-T6511
.50" x 5.00" X 144.0000"

Heat Number 201709163 DAS 5 Tag No 673709

Quantity 12 FT PCS 1 Wt LBS 36

4) Our Order PEC- 74611- 4 Your PO # 37171
ALUMINUM SQUARE BAR 6061-T6511
4.50" X 48.0000"

Heat Number Z00781015 DAS 5 Tag No 673629

Quantity 4 FT PCS 1 Wt LBS 95

5) Our Order PEC- 74611- 5 Your PO # 37171
ALUMINUM ROUND BAR 6061-T6511
.562" DIA X 144.0000"

Heat Number 183339-7 DAS 5 Tag No 673710

Quantity 24 FT PCS 2 Wt LBS 8

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

SEP 7-31

SHIP FROM:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

SHIP TO: (1)
DART AEROSPACE

31 July
No: PEC 56267
Ship Date 25 Jul 17 at 12:07 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

B I L L O F L A D I N G

TOTAL: Tags 5 PCS 10 LBS 506

Heat Number *** Chemical Analysis ***
183339-7
201709163
AOA010-AAD
Z00781015

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL, 2 SKIDS GW. 602 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37171**

Purchase Order Date 7/21/2017

PO Print Date 7/21/2017

Page Number 1 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

JUL 20 2017

Contact Name	Buyer	Chantal Lavoie
Vendor Phone 905 669 9444	Customer POID	
	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	CAD
Ship Via: VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:		

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M304S16GA ✓	304/316 Sheet .063 ✓	7/27/2017 Yes		96.00 ✓ sf	\$5.11	\$490.19

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

34

Line Total: \$490.19

2	M304S20GA	304/316 .040 Sheet	7/27/2017 Yes		96.00 ✓ sf	\$3.53	\$338.40
---	-----------	--------------------	------------------	--	---------------	--------	----------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

3x.

80 A-7-31

PO Instructions: NO ST-74034

Note:

7/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37171

Purchase Order Date 7/21/2017

PO Print Date 7/21/2017

Page Number 2 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Chantal Lavoie

Line Total: \$338.40

3 M6061T6B0.500X05.000 6061-T6 Bar .500 x 5.00 7/27/2017
Yes
7/27/2017

12.00
f

\$9.50 \$114.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$114.00

4 M6061T6B4.500X4.500 6061-T6 Aluminum Bar 4.500" X 4.500" 7/27/2017
No
7/27/2017

4.00
f

\$82.50 \$330.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$330.00

PO Instructions: NO ST-74034

Note:

7/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37171

Purchase Order Date 7/21/2017

PO Print Date 7/21/2017

Page Number 3 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

5	M6061T6R0.563	6061-T6 ROUND BAR .563	7/27/2017	24.00	\$3.50	\$84.00
		Yes	7/27/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$84.00

6	71401-45	PROCUREMENT QUALITY CLAUSES	7/27/2017	1.00	\$0.00	\$0.00
		No	7/27/2017			

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality document

Line Total: \$0.00

PO Total: \$1,356.59

PO Instructions: NO ST-74034

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 7/21/2017

Q U O T A T I O N

No: PEC ST-74034

Quoted By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 20Jul17 Qte Ref
 Frt PREPAID Via FOB
 Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL
 Slp STAN IVERS (905-532-1350)

Q U O T A T I O N

QT No: PEC ST-74034

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

1	STAINLESS STEEL SHEET 304L-2B DUAL GRADE .0600 Nom X 48.0000" X 96.0000"	3 PCS	241 LBS
	MATERIAL	3 PCS @ 163.3967 EA	490.19
	ENERGY & CAP SURCHG	25.0000 LOT	25.00
	SKID	25.0000 LOT	25.00
2	STAINLESS STEEL SHEET 304-2B .0360 Nom X 48.0000" X 96.0000"	3 PCS	144 LBS
	MATERIAL	3 PCS @ 112.8000 EA	338.40
3	ALUMINUM FLAT BAR 6061-T6511 .375" x 1.00" X 144.0000"	2 PCS	11 LBS
	MATERIAL	24 FT @ 4.5833 FT	110.00
4	ALUMINUM FLAT BAR 6061-T6511 .50" x 5.00" X 144.0000"	1 PCS	36 LBS
	MATERIAL	12 FT @ 9.5000 FT	114.00
5	ALUMINUM FLAT BAR 6061-T6511 .750" x 2.00" X 144.0000"	1 PCS	22 LBS
	MATERIAL	12 FT @ 6.6000 FT	79.20
6	ALUMINUM FLAT BAR 6061-T6511 1.00" x 2.00" X 144.0000"	2 PCS	58 LBS
	MATERIAL	24 FT @ 7.2500 FT	174.00
7	ALUMINUM SQUARE BAR 6061-T6511 1.50" X 144.0000"	1 PCS	32 LBS
	MATERIAL	12 FT @ 8.0000 FT	96.00
8	ALUMINUM FLAT BAR 6061-T6511 1.50" x 2.50" X 144.0000"	1 PCS	53 LBS
	MATERIAL	12 FT @ 13.2500 FT	159.00

Q U O T A T I O N

No: PEC ST-74034

Quoted By:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
DART AEROSPACE

Quoted Ship To: (1)
DART AEROSPACE

Q U O T A T I O N

QT No: PEC ST-74034

9 ALUMINUM SQUARE BAR 6061-T6511 4.50" X 48.0000"	1 PCS	99 LBS 4 FT
<<<----- SPECIFICATIONS ----->>>		
Ga Tol + 0.0000 - 0.0000 Pc/Tag 1		
WthTol + 0.0000 - 0.0000 Wt/Skd		
LthTol + 0.1250 - 0.0000 Ty Pk		
MATERIAL	4 FT @ 82.5000 FT	330.00
10 ALUMINUM ROUND BAR 6061-T6511 .562" DIA X 144.0000"	2 PCS	7 LBS 24 FT
MATERIAL	24 FT @ 3.5000 FT	84.00
11 ALUMINUM ROUND BAR 6061-T6511 1.00" DIA X 144.0000"	1 PCS	11 LBS 12 FT
MATERIAL	12 FT @ 4.8500 FT	58.20
12 ALUMINUM SHEET 6061 T6 .0400 Nom X 48.0000" X 144.0000" Part No * NO STOCK	2 PCS	54 LBS
MATERIAL	54 LBS @ LBS	
13 ALUMINUM SHEET 6061 T6 .0810 Nom X 48.0000" X 144.0000"	2 PCS	109 LBS
MATERIAL	2 PCS @ 174.9700 EA	349.94
14 STAINLESS STEEL FLAT BAR 304-L HRAP .50" X 2.50" X 144.0000" Part No * NO STOCK	2 PCS	102 LBS
MATERIAL	102 LBS @ LBS	

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

Price in effect at time of shipment.

Price based on receipt of total order.

All weights are theoretical.

All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM ***

Q U O T A T I O N

No: PEC ST-74034

Quoted By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
 DART AEROSPACE

Quoted Ship To: (1)
 DART AEROSPACE

Q U O T A T I O N

QT No: PEC ST-74034

* WE STOCK STAINLESS STEEL!!!! *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

 *FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE
 *VISIT OUR WEBSITE: www.copperandbrass.com

 NO CANCELLATIONS ON PROCESSED MATERIAL.

Order Totals: 14 Items 979 LBS

Material	Processing	Freight	Other	Taxes	ORDER AMT
2,382.93			50.00	316.28	2,749.21
Taxes: ONHSTS	316.28	0.00		0.00	0.00

21Jul17 10:13

S A L E S A C K N O W L E D G M E N T

No: PEC ST-74611

Sold By:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship To: (1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS

Frt PREPAID

Con 96294

Slp STAN IVERS (905-532-1350)

Ord 21Jul17 Due24Jul17

Via VIM DELIVERY

FOB CONCORD

PO/Rel 37171

Tel 613-632-9577 Fax 613-632-1053

S A L E S A C K N O W L E D G M E N T SO No PEC ST-74611

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

1 STAINLESS STEEL SHEET 304L-2B DUAL GRADE	3 PCS	241 LBS
.0600 Nom X 48.0000" X 96.0000"		
MATERIAL	3 PCS @	163.3967 EA 490.19
ENERGY & CAP SURCHG		25.0000 LOT 25.00
SKID		25.0000 LOT 25.00
2 STAINLESS STEEL SHEET 304-2B	3 PCS	144 LBS
.0360 Nom X 48.0000" X 96.0000"		
MATERIAL	3 PCS @	112.8000 EA 338.40
3 ALUMINUM FLAT BAR 6061-T6511	1 PCS	36 LBS
.50" x 5.00" X 144.0000"		12 FT
MATERIAL	12 FT @	9.5000 FT 114.00
4 ALUMINUM SQUARE BAR 6061-T6511	1 PCS	99 LBS
4.50" X 48.0000"		4 FT
<<<----- SPECIFICATIONS ----->>>		
Ga Tol + 0.0000 - 0.0000 Pc/Tag	1	
WthTol + 0.0000 - 0.0000 Wt/Skd		
LthTol + 0.1250 - 0.0000 Ty	Pk	
MATERIAL	4 FT @	82.5000 FT 330.00
5 ALUMINUM ROUND BAR 6061-T6511	2 PCS	7 LBS
.562" DIA X 144.0000"		24 FT
MATERIAL	24 FT @	3.5000 FT 84.00

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

** CUSTOMER PICK-UP HRS / 9:00 AM TO 4:00 PM **

*** TEL. 800-926-2600 ***

* WE STOCK STAINLESS STEEL!!!! *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

21Jul17 10:13 S A L E S A C K N O W L E D G M E N T No: PEC ST-74611

Sold By:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

=====

S A L E S A C K N O W L E D G M E N T SO No PEC ST-74611

Test Certs: Chem Y Phys Y 1 Original copies with Shipment, 1 with Invoice

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

*VISIT OUR WEBSITE: www.copperandbrass.com

NO CANCELLATIONS ON PROCESSED MATERIAL.

Order Totals:				5 Items	527 LBS	
*****	Material	Processing	Freight	Other	Taxes	ORDER AMT
*****	1,356.59			50.00	182.85	1,589.44

Taxes: ONHSTS	182.85					

PO/Rel 37171

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

BL PEC-056267-001

Signed by:

This MTR contains 1 page (Page# 1)
MTR#:YMCLF14M807-8-1.0

MILL TEST REPORT
Customer: COPCON PO#:VIM-629696 SO#:LEXB10
TA CHEN INTERNATIONAL, INC.
Item:16GA4896304L2B Bundle:38S27993A-4 Heat#:YU175175

INSPECTION CERTIFICATE



YIEH MAU CORP.
INVOICE NO.: F14M713-17007-8008-1
COUNTRY: TAIWAN
SPECIFICATION: AISI 304 / 304L 2B FINISH
CUSTOMER: TA CHEN STAINLESS PIPE CO., LTD.

工廠:高雄市中區內惟路315號
345, SU-UN AN RD. LL CHU HSING
KAOHSIUNG HSIEN TAIWAN R.O.C
TEL:076972885 FAX:076973005
CERTIFICATE NO:144807-4-1
DATE OF ISSUE:06/15/2014

NO. of Product		Weight in KG NET	Heat No.	ID No.	Physical Properties Tensile Test Q-T50 mPa				Chemical Properties (%)									
SIZE					Y.S. PSI	T.S. PSI	EL. (%)	HRB	HV	C	SI	Mn	P	S	NI	Cr	N	
										% 100	% 100	% 100	% 100	% 100	% 100	% 100	% 100	
1	11GA(3.0MM)X48"X 96"	1860	YU175318	38S27993B-15	48545	89465	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1882	YU175318	38S27993A-11	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1882	YU175318	38S27993A-12	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1882	YU175318	38S27993A-13	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1882	YU175318	38S27993A-14	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1882	YU175318	38S27993A-15	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X48"X 96"	1310	LZ489602	38S27993B-11	47580	89610	54	84	167	2.8	42	147	35	9	806	1826	3.7	
1	11GA(3.0MM)X60"X 120"	1704	YU175295	38S27993B-13	46110	93570	55	86	175	1.8	49	85	31	1	804	1814	5.4	
1	14GA(1.9MM)X60"X 120"	1689	YU175294	38S27992B-2	41760	91205	54	81	157	2.7	44	122	38	9	808	1810	4.3	
1	16GA(1.5MM)X48"X 96"	1819	YU175320	38S27992B-2	44805	90525	54	83	163	2	38	157	32	8	810	1825	4.2	
1	16GA(1.5MM)X48"X 96"	1819	YU175320	38S27992B-3	44805	90525	54	83	163	2	38	157	32	8	810	1825	4.2	
1	16GA(1.5MM)X48"X 96"	1857	YU175320	38S27992B-4	44805	90625	54	83	163	2	36	157	32	8	810	1825	4.2	
1	16GA(1.5MM)X48"X 96"	1833	YU175319	38S27993A-1	43210	92365	54	83	165	1.5	40	148	39	10	801	1807	3.6	
1	16GA(1.5MM)X48"X 96"	1833	YU175319	38S27993A-2	43210	92365	54	83	165	1.5	40	148	39	10	801	1807	3.6	
1	16GA(1.5MM)X48"X 96"	1833	YU175319	38S27993A-3	43210	92365	54	83	165	1.5	40	148	39	10	801	1807	3.6	
1	16GA(1.5MM)X48"X 96"	1833	YU175319	38S27993A-4	43210	92365	54	83	165	1.5	40	148	39	10	801	1807	3.6	
1	16GA(1.5MM)X48"X 96"	1863	YU175319	38S27992B-3	44370	90770	52	83	164	2.4	40	148	34	3	803	1825	3.7	
1	18GA(1.5MM)X60"X 120"	1822	LZ489602	38S27992B-6	44515	91585	50	83	164	1.5	45	91	26	1	809	1825	5.7	

REMARK: 20 38016
NO MERCURY CONTAMINATION
WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS
BEEN MADE IN ACCORDANCE WITH THE RULES OF THE MILL CERTIFICATE.
BEND TEST: GOOD FOR ALL MATERIALS
1. TENSILE: 38S27993A-15, 38S27993A-11, 38S27993A-12, 38S27993A-13, 38S27993A-14, 38S27993A-15, 38S27993B-11, 38S27992B-15, 38S27992B-13, 38S27992B-2, 38S27992B-3, 38S27992B-5, 38S27993A-1, 38S27993A-2, 38S27993A-3, 38S27993A-4
2. INTERMETALLIC COMPOSITION IN ACCORDANCE WITH ASTM A202-E
3. HARDNESS: 1. 1/2" Ball HRB/ASTM E18, 1/8" Ball HRB/ASTM E18, 1/16" Ball HRB/ASTM E18, 1/32" Ball HRB/ASTM E18, 1/64" Ball HRB/ASTM E18, 1/128" Ball HRB/ASTM E18, 1/256" Ball HRB/ASTM E18, 1/512" Ball HRB/ASTM E18, 1/1024" Ball HRB/ASTM E18, 1/2048" Ball HRB/ASTM E18, 1/4096" Ball HRB/ASTM E18, 1/8192" Ball HRB/ASTM E18, 1/16384" Ball HRB/ASTM E18, 1/32768" Ball HRB/ASTM E18, 1/65536" Ball HRB/ASTM E18, 1/131072" Ball HRB/ASTM E18, 1/262144" Ball HRB/ASTM E18, 1/524288" Ball HRB/ASTM E18, 1/1048576" Ball HRB/ASTM E18, 1/2097152" Ball HRB/ASTM E18, 1/4194304" Ball HRB/ASTM E18, 1/8388608" Ball HRB/ASTM E18, 1/16777216" Ball HRB/ASTM E18, 1/33554432" Ball HRB/ASTM E18, 1/67108864" Ball HRB/ASTM E18, 1/134217728" Ball HRB/ASTM E18, 1/268435456" Ball HRB/ASTM E18, 1/536870912" Ball HRB/ASTM E18, 1/1073741824" Ball HRB/ASTM E18, 1/2147483648" Ball HRB/ASTM E18, 1/4294967296" Ball HRB/ASTM E18, 1/8589934592" Ball HRB/ASTM E18, 1/17179869184" Ball HRB/ASTM E18, 1/34359738368" Ball HRB/ASTM E18, 1/68719476736" Ball HRB/ASTM E18, 1/137438953472" Ball HRB/ASTM E18, 1/274877906944" Ball HRB/ASTM E18, 1/549755813888" Ball HRB/ASTM E18, 1/1099511627776" Ball HRB/ASTM E18, 1/2199023255552" Ball HRB/ASTM E18, 1/4398046511104" Ball HRB/ASTM E18, 1/8796093022208" Ball HRB/ASTM E18, 1/1759218044416" Ball HRB/ASTM E18, 1/3518436088832" Ball HRB/ASTM E18, 1/7036872177664" Ball HRB/ASTM E18, 1/14073744355328" Ball HRB/ASTM E18, 1/28147488710656" Ball HRB/ASTM E18, 1/56294977421312" Ball HRB/ASTM E18, 1/112589954842624" Ball HRB/ASTM E18, 1/225179909685248" Ball HRB/ASTM E18, 1/450359819370496" Ball HRB/ASTM E18, 1/900719638740992" Ball HRB/ASTM E18, 1/180143927681984" Ball HRB/ASTM E18, 1/360287855363968" Ball HRB/ASTM E18, 1/720575710727936" Ball HRB/ASTM E18, 1/1441151421455872" Ball HRB/ASTM E18, 1/2882302842911744" Ball HRB/ASTM E18, 1/5764605685823488" Ball HRB/ASTM E18, 1/11529211369646720" Ball HRB/ASTM E18, 1/23058422739293440" Ball HRB/ASTM E18, 1/46116845478586880" Ball HRB/ASTM E18, 1/92233690957173760" Ball HRB/ASTM E18, 1/184467381914347520" Ball HRB/ASTM E18, 1/368934763828695040" Ball HRB/ASTM E18, 1/737869527657390080" Ball HRB/ASTM E18, 1/1475739055314780160" Ball HRB/ASTM E18, 1/2951478110629560320" Ball HRB/ASTM E18, 1/5902956221259120640" Ball HRB/ASTM E18, 1/11805912442518241280" Ball HRB/ASTM E18, 1/23611824885036482560" Ball HRB/ASTM E18, 1/47223649770072965120" Ball HRB/ASTM E18, 1/94447299540145930240" Ball HRB/ASTM E18, 1/18889459908029180480" Ball HRB/ASTM E18, 1/37778919816058360960" Ball HRB/ASTM E18, 1/75557839632116721920" Ball HRB/ASTM E18, 1/15111567364243443840" Ball HRB/ASTM E18, 1/30223134728486887680" Ball HRB/ASTM E18, 1/60446269456973775360" Ball HRB/ASTM E18, 1/120892538913755550720" Ball HRB/ASTM E18, 1/241785077827511101440" Ball HRB/ASTM E18, 1/483570155655022202880" Ball HRB/ASTM E18, 1/967140311310044405760" Ball HRB/ASTM E18, 1/1934280622620088915360" Ball HRB/ASTM E18, 1/3868561245240177831680" Ball HRB/ASTM E18, 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Ball HRB/ASTM E18, 1/1622592175555555555555555510720" Ball HRB/ASTM E18, 1/3245184351111111111111111121440" Ball HRB/ASTM E18, 1/6490368702222222222222222242880" Ball HRB/ASTM E18, 1/1298073740444444444444444485760" Ball HRB/ASTM E18, 1/2596147480888888888888888971520" Ball HRB/ASTM E18, 1/5192294961777777777777777943040" Ball HRB/ASTM E18, 1/1038458923555555555555555886080" Ball HRB/ASTM E18, 1/20769178471111111111111111772160" Ball HRB/ASTM E18, 1/41538356942222222222222223544320" Ball HRB/ASTM E18, 1/83076713884444444444444447088640" Ball HRB/ASTM E18, 1/1661534276888888888888888813777280" Ball HRB/ASTM E18, 1/3323068553777777777777777727555520" Ball HRB/ASTM E18, 1/6646137107555555555555555455111040" Ball HRB/ASTM E18, 1/13292274211111111111111111910222080" Ball HRB/ASTM E18, 1/2658454842222222222222222382044160" Ball HRB/ASTM E18, 1/5316909684444444444444444764088320" Ball HRB/ASTM E18, 1/106338193688888888888888881528176640" Ball HRB/ASTM E18, 1/212676387377777777777777773056353280" Ball HRB/ASTM E18, 1/425352774755555555555555561112706560" Ball HRB/ASTM E18, 1/8507055495111111111111111222254131213120" Ball HRB/ASTM E18, 1/170141109902222222222222224444508262522560" Ball HRB/ASTM E18, 1/340282219804444444444444488881652525121280" Ball HRB/ASTM E18, 1/680564439608888888888888817777732525121280" Ball HRB/ASTM E18, 1/13611288737777777777777777355556502525121280" Ball HRB/ASTM E18, 1/2722257647555555555555555711111302525121280" Ball HRB/ASTM E18, 1/5444515295111111111111111422222402525121280" Ball HRB/ASTM E18, 1/1088903050222222222222222844444802525121280" Ball HRB/ASTM E18, 1/21778061004444444444444456888962525121280" Ball HRB/ASTM E18, 1/435561220088888888888888113777792525121280" Ball HRB/ASTM E18, 1/87112244017777777777777722755558502525121280" Ball HRB/ASTM E18, 1/1742248803555555555555554551111702525121280" Ball HRB/ASTM E18, 1/348449660711111111111111910222402525121280" Ball HRB/ASTM E18, 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1/7482894064355555555555571111302525121280" Ball HRB/ASTM E18, 1/149657812871111111111142222402525121280" Ball HRB/ASTM E18, 1/299315625642222222222223820441602525121280" Ball HRB/ASTM E18, 1/59863125128444444444447640883202525121280" Ball HRB/ASTM E18, 1/11972625256888888888888113777792525121280" Ball HRB/ASTM E18, 1/2394525137377777777777722755558502525121280" Ball HRB/ASTM E18, 1/478905027475555555555554551111702525121280" Ball HRB/ASTM E18, 1/9578100549511111111111910222402525121280" Ball HRB/ASTM E18, 1/191562010902222222222223820441602525121280" Ball HRB/ASTM E18, 1/38312402180444444444447640883202525121280" Ball HRB/ASTM E18, 1/76624804360888888888888113777792525121280" Ball HRB/ASTM E18, 1/1532496072177777777777730563532802525121280" Ball HRB/ASTM E18, 1/3064992145555555555555571111302525121280" Ball HRB/ASTM E18, 1/612998431111111111111142222402525121280" Ball HRB/ASTM E18, 1/122599682222222222222223820441602525121280" Ball HRB/ASTM E18, 1/24519936444444444444447640883202525121280" Ball HRB/ASTM E18, 1/49039872888888888888888113777792525121280" Ball HRB/ASTM E18, 1/980797457777777777777722755558502525121280" Ball HRB/ASTM E18, 1/19615949155555555555555611127065602525121280" Ball HRB/ASTM E18, 1/39231898311111111111112222541312131202525121280" Ball HRB/ASTM E18, 1/78463796

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
.0360 Nom X 48.0000" X 96.0000"
PART NO.

PO/Rel 37171

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-056267-002

24Jul17

Pg 1/1

Signed by:

高雄市中區中正路235號13F
13F, No. 235 Jungfeng 4th Road, Chianjin
Chiu, Kaohsiung, Taiwan
TEL : 886-7-9695858 FAX : 886-7-9685768
http://www.yuenchang.com.tw

檢驗證明書

MILL TEST CERTIFICATE

列印日期 ISSUE DATE : 2015/04/27

連錫鋼鐵股份有限公司
YUEN CHANG STAINLESS STEEL CO.,

客戶名稱 Customer		Thyssenkrupp Steel Services A Division Of Thyssenkrupp Materials Na Inc 22355 West Eleven Mile Road Southfield MI 48033 USA	
商品描述 Desc. Of Goods		Description Of Goods And/Or Services : Prime, Cold Rolled Stainless Steel Coil/Sheets, Slitted Edge, As Per ASTM A240/A480. Grade 304, 2B Finish Grade 304, No.4 Finish, Laser PVC On One Main Side, With Back Pass Grade 304, 2B Finish, With Paper Interleaf	
項目 Item	鋼捲編號 Coil No.	爐號 Heat Number	鋼種 Steel Grade
AE004	CCBE0004-15	DA5 AOA010-AAD	304
AE005	CCBE0003-05	5 AOA010-AAD	304
AE001	CCBE0004-14	9-89 AOA010-AAD	304
AE006	CCWR0007-22	AOA005-AAH	304
AE003	CCWR0007-23	AOA005-AAH	304
	CCCS0396-29	ANU033-AAF	304

Item	化學成分 Chemical Composition / Chemical Analysis (%)										機械性質 Mechanical Properties			
	C	Si	Min	P	S	Cr	Ni	N	Cu	Mo	Others	T.S N/MM2	Y.S(0.2%) N/MM2	Elong (%)
AE004	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		654	306	56.0
AE005	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		652	311	56.0
AE001	0.021	0.310	1.370	0.031	0.0014	18.240	8.050	0.074	0.270	0.100		654	306	56.0
AE006	0.021	0.270	1.330	0.030	0.0083	18.290	8.020	0.077	0.310	0.150		668	344	49.0
AE003	0.018	0.340	1.390	0.031	0.0054	18.200	8.030	0.074	0.270	0.100		643	280	60.0

茲證明本廠所製產品，均依材料規格製造及試驗，並符合規格之要求。 (We hereby certify that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirement of the above material specification.)														
本廠產品無雜質污染，並且不含汞。The material described above is free from radiation contamination and mercury.														
本廠因符合EN10204/Type 3.1認證。Inspection certificate in accordance with EN10204/Type 3.1.														
本廠所製產品均符合ASTM A240規範要求。All the above products conform to the requirements specified in ASTM A240														
WE HEREBY CERTIFYING THE MATERIAL TO ASTM A240/A480 AS PER EN 10204/3.1														
THYSSENKRUPP MATERIALS NA PO PEC-263720, PEC-263621.														
												QC Manager		
												ISO 9001		
												David Wang		

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
.50" x 5.00" x 144.0000"
PART NO.

PO/Rel 37171

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results
BL PEC-056267-003
24Jul17
Pg 1/1



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

BILL TO

ThyssenKrupp Materials NA-Concord, ON

SHIP TO

ThyssenKrupp Materials NA-Concord, ON

Quantity Certified 2,328 lbs 66 pcs

MANIFEST NUMBER

335484

CUSTOMER PO

PEC-283674

CUSTOMER PART NUMBER

RB0101

DIE NUMBER

RB0101

ALLOY/TEMPER

6061-T6511

DESCRIPTION

SCRB 500x5.000

DATE OF SHIPMENT

6/13/2017

SALESPERSON

D. Schroeder (Canada)



OUR ORDER NUMBER

921681

ITEM

15

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION

AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests Lot No.

2 201709163
DAS 5
9-89

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
6/10/17	min 47.00 max 48.00	min 43.80 max 44.60	min 11.90 max 14.60

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Each	Total	Others	Melt Source:
001J170602D	201709163	6061	0.73	0.35	0.30	0.09	0.87	0.09	0.05	0.03	97.49	0.05	0.15		United States of America

SCM is ISO 9001-2015 certified

SCM products are melted and extruded in the USA

Calvin L. Higgins

Print Date: 6/13/2017

Calvin L. Higgins, Director of Quality & Technical Services

Rev. 04/17/16

DART AEROSPACE
ALUMINUM SQUARE BAR 6061-T6511
4.50" X 48.0000"
PART NO.

PO/Rd 37171
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

BL PEC-056267-004

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:	
PEC-283330-2		4.500 SC SQ BAR	
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:
6030639	002	05/09/2017	Z00781015
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIM/DIA/F/TH/KNS:
1143.000 LB	4.000 PCS	619063	
SHIP TO:			
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			
SOLD TO:			
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
5	200781015	0001	56.9	53.9	15.6	RE 93	N/A	N/A

9-89

Chemical Composition (wt%), Aluminum Remainder

LIMITS	SI	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ba	For
Maximum	0.83	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.43	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107012	.75	.29	.28	.10	.94	.09	.06	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASIM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MILTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Any warranty is limited to that shown on description set forth in Kaiser's sales acknowledgement form. Test reports are on file, subject to examination.

Almee L. Macnowski, Quality & Technology Manager

Almee L. Macnowski

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
.562" DIA X 144.000"
PART NO.

PO/Rel 37171

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-056267-005

24Jul17

Pg 1/1

Signed by:



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
http://www.extrudex.com

MILL TEST

BILL TO	1773	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
THYSSENKRUPP MATERIALS NA	1773	9	S 16303	Aug/13/2015	183339 - 7	333130
SHIP TO		CUSTOMER PO	ALLOY	SALESMAN		
THYSSENKRUPP MATERIALS NA		PEC-268674	6061	FORBES DODWELL		
DESCRIPTION		CUSTOMER PART NUMBER	PART DESCRIPTION			
.562" DIA		16303-S	.562" DIA			

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	Aug/12/2015	42.80	40.00	17.80	89.4, 89.7, 89.0	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Al	Y	B	Zr	Pb	Sn	Sr	Co	Al	Other
A.11 29268 6061	0.55	0.209	0.201	0.053	0.84	0.061	0	0.01	0.012	0	0	0	0	0	0	0	0	0.007

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S16GA

PO / BATCH NO.: P037171/M138175

DATE: AUG 01 2017

MATERIAL CERT REC'D: YES

THICKNESS ORDERED: .063

QUANTITY RECEIVED: 96 SFT

THICKNESS RECEIVED: .058

QUANTITY INSPECTED: 96 SFT

SHEET SIZE ORDERED: 4x8

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>Astm A240</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>HT # YU175175</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>M304S16GA</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>AISI 304/304L 2B</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: _____	DAS 5 9-89	SIGNED OFF BY: _____	
DATE: <u>AUG 01 2017</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5521 (316)
OR ASTM A240
OR ASME SA240

DAS
5
9-89

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
POLISHED No. 6
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER
IDENTIFIER
1P
2D
NONE
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "P" = FINISH IDENTIFIER

EG: 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG: 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122 q

D	ADDED GAUGES 0-7.	AJS	DATE
C	DEEMED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN ZB (FR BS).	MB	12.08.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (CB-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.	M304S		
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
SHEET 1 OF 1			
TITLE 304/316 SS SHEET			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M30452094
 DATE: AUG 01 2017

PO / BATCH NO.: P03717/MT38175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 9652ft
 QUANTITY INSPECTED: 9652ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .036
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A240
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT# A04010-44D
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	30452094
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	3042B
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 5</u> DATE: <u>AUG 01 2017</u>	<u>9-89</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5528 (316)
OR ASTM A240
OR ASME SA312

DAS
5
9-89

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122

REV.	DESCRIPTION	DATE
A	NEW ISSUE	01.09.24
B	REFORMAT DWG. ADD ASTM/ASME SPECS (2N D8-1), ADD GAUGE REF (C8-1)	08.06.01
C	DEFINED FINISH OPTION (2N C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 2B (2N B6).	12.09.20
D	ADDED GAUGES D-7.	15.01.06
DESIGN	DART AEROSPACE LTD	
DRAWN	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DRAWING NO.	
MFG. APPR.	M304S	
APPROVED	TITLE	
DE APPR.	304/316 SS SHEET	
DATE	15.01.06	
SCALE	SHEET 1 OF 1	
NTS		

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DART AEROSPACE LTD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.500X5.000
 DATE: AUG 01 2017

PO / BATCH NO.: P037171/m138175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .500
 SHEET SIZE ORDERED:
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HT # 201709163
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	6061T6B
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	6061T6511
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>5</u> DATE: <u>AUG 01 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

B

DAS

PART NUMBER: M6061T6B | T.TT | X | WW.WWW | 5 | 9-89

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
		SHEET 1 OF 1	
		SCALE	
		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6B4500X4500
 DATE: AUG 01 2017

PO / BATCH NO.: 0037171/4138175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.5
 THICKNESS RECEIVED: 4.5
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT # 20078
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	6061+6B
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	6061+6511
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>5</u> DATE: <u>AUG 01 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221



DAS

5

9-89

PART NUMBER: M6061T6B | T.TTT | X | WW WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. B
M6061T6B	SHEET 1 OF 1
TITLE	SCALE
6061-T6 BAR	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061T6R0.563
 DATE: AUG 01 2017

PO / BATCH NO.: 037171/M138175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .563
 THICKNESS RECEIVED: .563
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	ASfm B521
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	HT #183339
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	6061T6R
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	6061T6511
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	DAS 5	SIGNED OFF BY: _____
DATE: <u>AUG 01 2017</u>	9-89	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R/D.DDB
DAS 5

WHERE "D DDB" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R.D.625

RELEASED
R 2009-09-09
MJD

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R			
TITLE 6061-T6 ROUND BAR			
SHEET 1 OF 1			
SCALE NTS			
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